

IN THE CLAIMS

Please amend the claims to read as follows:

Listing of Claims

Claims 1-44 (Cancelled).

45. (New) A method for balancing the distribution of interference between radio cells in a wireless communication system, the system comprising a plurality of radio cells in which a plurality of subcarrier blocks is used for communication, wherein each subcarrier block comprises a plurality of subcarriers, wherein a number of adjacent radio cells build a cell cluster, the method comprising the steps of:

grouping said subcarrier blocks into a plurality of subcarrier block sets in each radio cell of the cell cluster,

determining a plurality of transmission power levels for each of the radio cells of said cell cluster, and

assigning the plurality of transmission power levels to the subcarrier block sets of radio cells of the cell cluster.

46. (New) The method according to claim 45, wherein the radio cells of the cell cluster each comprise corresponding subcarrier block sets having the same subcarriers.

47. (New) The method according to claim 46, wherein said plurality of transmission power levels is assigned to the subcarrier block sets of radio cells of the cell cluster, such that

in a single radio cell, there is a mapping of each of said plurality of transmission power levels to a subcarrier block set of said single radio cell, and

there is a mapping of each of said plurality of transmission power levels to one of said corresponding subcarrier block sets in the radio cells of said cell cluster.

48. (New) The method according to claim 45, wherein said plurality transmission power levels is assigned to the subcarrier block sets of radio cells of the cell cluster, such that

in a single radio cell, there is a mapping of each of said plurality of subcarrier block sets of said single radio cell to a transmission power level, and

there is a mapping of each of said corresponding subcarrier block sets in the radio cells of said cell cluster to one of said plurality of transmission power levels.

49. (New) The method according to claim 47, wherein the mapping is a unique mapping.

50. (New) The method according to claim 45, wherein the offsets between the transmission power levels in a radio cell vary between the radio cells.

51. (New) A method for balancing the distribution of interference between radio cells in a wireless communication system, the system comprising a plurality of radio cells each of them comprising at least two sectors, wherein in each sector a plurality of subcarrier blocks is used for communication, wherein each subcarrier block comprises a plurality of subcarriers, wherein a number of adjacent radio cells build a cell cluster, the method comprising the steps of:

grouping said subcarrier blocks into a plurality of subcarrier block sets in each of the sectors of each radio cell of said cluster

determining a plurality of transmission power levels for each sector of each radio cell of the cell cluster,

assigning the plurality of transmission power levels to the plurality of subcarrier block sets of a sector of a radio cell and its adjacent sectors of said other radio cells.

52. (New) The method according to claim 51, wherein each sector of a radio cell has adjacent sectors in the other radio

cells of the cell cluster, and wherein a sector of a radio cell and its adjacent sectors in said other radio cells build a sector cluster and each comprise corresponding subcarrier block set having the same subcarriers.

53. (New) The method according to claim 52, wherein said plurality of transmission power levels is assigned to the subcarrier block sets of radio cells of the cell cluster, such that

in a single sector of a radio cell, there is a mapping of each of said plurality of transmission power levels to a subcarrier block set of said sector, and

there is a mapping of each of said plurality of transmission power levels to one of said corresponding subcarrier block sets in said sector cluster.

54. (New) The method according to claim 52, wherein said plurality transmission power levels is assigned to the subcarrier block sets of radio cells of the cell cluster, such that

in a single sector of a radio cell, there is a mapping of each of said plurality of subcarrier block sets of said sector to a transmission power level, and

there is a mapping of each of said plurality of said corresponding subcarrier block sets in said sector cluster to one transmission power level.

55. (New) The method according to claim 53, wherein the mapping is a unique mapping.

56. (New) The method according to claim 45, wherein the communication system comprises a plurality of communication terminals communicating with base stations associated to said plurality of radio cells, the method further comprising the steps of:

measuring the path loss of a communication signal of a communication terminal and the path loss due to interference from adjacent radio cells/sectors for said communication signal, and assigning the communication terminal to at least one subcarrier block of a subcarrier block set in a radio cell/sector based on said measurement.

57. (New) The method according to claim 56, further comprising the step of determining a transmission power level for said communication terminal based on said measurement, and wherein the communication terminal is assigned to at least one

subcarrier block of a block set based on the determined transmission power level.

58. (New) The method according to claim 45, wherein the transmission power levels in different radio cells/sectors vary.

59. (New) The method according to claim 46, wherein the subcarrier block set size of corresponding subcarrier block sets is equal.

60. (New) The method according to claim 45, further comprising the step of reconfiguring the subcarrier block sets in a radio cell/sector.

61. (New) The method according to claim 45, further comprising the step of reconfiguring the transmission power levels in a radio cell/sector.

62. (New) The method according to claim 60, wherein the reconfiguration of the power levels and/or the subcarrier block sets in the radio cell is performed in accordance with the other radio cells of a cell cluster.

63. (New) The method according to claim 60, wherein the reconfiguration of the power levels and/or the subcarrier block sets in the sector is performed in accordance with the other sectors of a sector cluster.

64. (New) The method according to claim 60, wherein the reconfiguration is based on channel quality measurements.

65. (New) The method according to claim 45, further comprising the step of signaling information related to a reconfiguration of the subcarrier block sets in a radio cell/sector from the/its radio cell to at least one adjacent radio cell.

66. (New) The method according to claim 45, further comprising the step of signaling information related to channel qualities in a radio cell/sector from the/its radio cell to at least one adjacent radio cell.

67. (New) The method according to claim 65, further comprising the step of signaling the information to a control unit in the communication system.

68. (New) The method according to claim 56, further comprising the step of signaling information related to a subcarrier block assignment and/or a subcarrier block set assignment to a communication terminal.

69. (New) A base station in a wireless communication system, the system comprising a plurality of radio cells in which a plurality of subcarrier blocks is used for communication, wherein each subcarrier block comprises a plurality of subcarriers, wherein a number of adjacent radio cells build a cell cluster, the base station comprising:

processing means for grouping said subcarrier blocks into a plurality of subcarrier block sets in each radio cell of the cell cluster,

determination means for determining a plurality of transmission power levels for each of the radio cells of said cell cluster,

assigning means for assigning the plurality transmission power levels to the subcarrier block sets of radio cells of the cell cluster.

70. (New) The base station according to claim 69, wherein the radio cells of the cell cluster each comprise corresponding subcarrier block sets having the same subcarriers.

71. (New) The base station according to claim 70, wherein said assigning means is adapted to assign said plurality transmission power levels to the subcarrier block sets of radio cells of the cell cluster, such that

in a single radio cell, there is a mapping of each of said plurality of transmission power levels to a subcarrier block set of said single radio cell, and

there is a mapping of each of said plurality of transmission power levels to one of said corresponding subcarrier block sets in the radio cells of said cell cluster.

72. (New) The base station according to claim 70, wherein said assigning means is adapted to assign said plurality transmission power levels to the subcarrier block sets of radio cells of the cell cluster, such that

in a single radio cell, there is a mapping of each of said plurality of subcarrier block sets of said single radio cell to a transmission power level, and

there is a mapping of each of said corresponding subcarrier block sets in the radio cells of said cell cluster to one of said plurality of transmission power levels.

73. (New) A base station in a wireless communication system, the system comprising a plurality of radio cells in which a plurality of subcarrier blocks is used for communication, wherein each subcarrier block comprises a plurality of subcarriers, wherein N adjacent radio cells build a cell cluster, N being an integer number of 2 or more, the base station comprising:

processing means for grouping said subcarrier blocks into N subcarrier block sets in each radio cell of the cell cluster, wherein the radio cells of the cell cluster each comprise corresponding subcarrier block sets having the same subcarriers,

determining means for determining N transmission power levels for each of the radio cells of said cell cluster,

assigning means for assigning N transmission power levels to the N subcarrier block sets of radio cells of the cell cluster, such that

each of the N transmission power levels in a radio cell is assigned to one of the N subcarrier block sets of said radio cell, and

each of the N transmission power levels is assigned to one subcarrier block set of corresponding subcarrier block sets.

74. (New) A base station in a wireless communication system, the system comprising a plurality of radio cells in which a plurality of subcarrier blocks is used for communication, wherein each subcarrier block comprises a plurality of subcarriers, wherein N adjacent radio cells build a cell cluster, N being an integer number of 2 or more, the base station comprising:

processing means for grouping said subcarrier blocks into $x \cdot N$ subcarrier block sets in each radio cell of the cell cluster, wherein the radio cells of the cell cluster each comprise corresponding subcarrier block sets having the same subcarriers, x being an integer number of 1 or more,

determination means for determining $y \cdot N$ transmission power levels for each of the radio cells of said cell cluster, y being an integer number of 1 or more,

assigning means for assigning $y \cdot N$ transmission power levels to the $x \cdot N$ subcarrier block sets of radio cells of the cell cluster, such that

each of the $y \cdot N$ transmission power levels in a radio cell is assigned to one of the $x \cdot N$ subcarrier block sets of said radio cell, and

y/x transmission power levels on average are assigned to one subcarrier block set of corresponding subcarrier block sets.

75. (New) A base station in a wireless communication system, the system comprising a plurality of radio cells each of them comprising at least two sectors, wherein in each sector a plurality of subcarrier blocks is used for communication, wherein each subcarrier block comprises a plurality of subcarriers, and wherein a number adjacent radio cells builds a cell cluster, the base station comprising:

processing means for grouping said subcarrier blocks into N subcarrier block sets in each of the sectors of each radio cell of said cluster, wherein each sector of a radio cell has $N-1$ adjacent sectors in the other radio cells of the cell cluster, and wherein a sector of a radio cell and its adjacent sectors in said other radio cells each comprise corresponding subcarrier block set having the same subcarriers, N being an integer number of 2 or more,

determination means for determining N transmission power levels for each sector of each radio cell of the cell cluster,

assigning means for assigning the N transmission power levels to the N subcarrier block sets of a sector of a radio cell and its adjacent sectors of said other radio cells, such that

in a sector, each of the N transmission power levels in the sector of a radio cell is assigned to one of the N subcarrier block sets of said sector, and

each of the N transmission power levels is assigned to one subcarrier block set of corresponding sectors.

76. (New) A base station in a wireless communication system, the system comprising a plurality of radio cells each of them comprising at least two sectors, wherein in each sector a plurality of subcarrier blocks is used for communication, wherein each subcarrier block comprises a plurality of subcarriers, and wherein a number adjacent radio cells builds a cell cluster, the base station comprising:

processing means for grouping said subcarrier blocks into $x \cdot N$ subcarrier block sets in each of the sectors of each radio cell of said cluster, wherein each sector of a radio cell has $N-1$ adjacent sectors in the other radio cells of the cell cluster, and wherein a sector of a radio cell and its adjacent sectors in said other radio cells each comprise corresponding subcarrier

block set having the same subcarriers, x being an integer number of 1 or more, an N being an integer number of 2 or more

determination means for determining $y \cdot N$ transmission power levels for each sector of each radio cell of the cell cluster, y being an integer number of 1 or more,

assigning means for assigning the $y \cdot N$ transmission power levels to the $x \cdot N$ subcarrier block sets of a sector of a radio cell and its adjacent sectors of said other radio cells, such that

in a sector, each of the $y \cdot N$ transmission power levels in a sector of a radio cell is assigned to one of the $x \cdot N$ subcarrier block sets of said sector, and

y/x transmission power levels on average are assigned to one subcarrier block set of corresponding sectors.

77. (New) The base station according to claim 69, wherein the base station is adapted to perform a method for balancing the distribution of interference between radio cells in a wireless communication system, the system comprising a plurality of radio cells in which a plurality of subcarrier blocks is used for communication, wherein each subcarrier block comprises a plurality of subcarriers, wherein a number of adjacent radio cells build a cell cluster, the method comprising the steps of:

grouping said subcarrier blocks into a plurality of subcarrier block sets in each radio cell of the cell cluster, determining a plurality of transmission power levels for each of the radio cells of said cell cluster, and assigning the plurality of transmission power levels to the subcarrier block sets of radio cells of the cell cluster.

78. (New) The base station according to claim 73, further comprising:

measuring means for measuring the path loss of a communication signal of a communication terminal and the path loss due to interference for said communication signal, and

assigning means to assign the communication terminal to at least one subcarrier block of one of said subcarrier block sets based on said measurement.

79. (New) A communication terminal in a wireless communication system comprising receiving means for receiving information indicating a subcarrier block assignment and/or a subcarrier block set assignment, and

selection means for selecting the signaled assigned subcarrier block and/or signaled assigned subcarrier block set for data transmission.

80. (New) A radio communication system comprising a base station according to claim 69 and a communication terminal in a wireless communication system comprising receiving means for receiving information indicating a subcarrier block assignment and/or a subcarrier block set assignment, and

selection means for selecting the signaled assigned subcarrier block and/or signaled assigned subcarrier block set for data transmission.